

Flight-Testing Newton's Laws			
2007 Mathematics			
Next Generation Sunshine State Standards			
Florida Mathematics			
Grades 9-12 (Algebra)			
Activity/Lesson	State	Standards	
Session-10 (1-5)	FL	MA.9-12.MA.912.A.2.13	Solve real-world problems involving relations and functions.
Session-10 (1-5)	FL	MA.9-12.MA.912.A.3.3	Solve literal equations for a specified variable.
Session-10 (1-5)	FL	MA.9-12.MA.912.A.3.5	Symbolically represent and solve multi-step and real-world applications that involve linear equations and inequalities.
Session-10 (1-5)	FL	MA.9-12.MA.912.A.3.6	Solve and graph the solutions of absolute value equations and inequalities with one variable.
Session-9 (1-7)	FL	MA.9-12.MA.912.A.3.3	Solve literal equations for a specified variable.
Session-9 (1-7)	FL	MA.9-12.MA.912.A.3.5	Symbolically represent and solve multi-step and real-world applications that involve linear equations and inequalities.
Session-9 (1-7)	FL	MA.9-12.MA.912.A.3.15	Solve real-world problems involving systems of linear equations and inequalities in two and three variables.
Session-9 (1-7)	FL	MA.9-12.MA.912.A.5.7	Solve real-world problems involving rational equations (mixture, distance, work, interest, and ratio).
Session-9 (1-7)	FL	MA.9-12.MA.912.A.7.8	Use quadratic equations to solve real-world problems.
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Florida Mathematics			
Grades 9-12 (Calculus)			
Activity/Lesson	State	Standards	
Session-1 (1-17)	FL	MA.9-12.MA.912.C.3.10	Find the velocity and acceleration of a particle moving in a straight line.
Session-1 (1-17)	FL	MA.9-12.MA.912.C.5.1	Find specific antiderivatives using initial conditions, including finding velocity functions from acceleration functions, finding position functions from velocity functions, and solving applications related to motion along a line.

Session-3 (1-6)	FL	MA.9-12.MA.912.C.3.9	Find average and instantaneous rates of change. Understand the instantaneous rate of change as the limit of the average rate of change. Interpret a derivative as a rate of change in applications, including velocity, speed, and acceleration.
Session-3 (1-6)	FL	MA.9-12.MA.912.C.3.10	Find the velocity and acceleration of a particle moving in a straight line.
Session-3 (1-6)	FL	MA.9-12.MA.912.C.5.1	Find specific antiderivatives using initial conditions, including finding velocity functions from acceleration functions, finding position functions from velocity functions, and solving applications related to motion along a line.
Session-9 (1-7)	FL	MA.9-12.MA.912.G.6.5	Solve real-world problems using measures of circumference, arc length, and areas of circles and sectors.
<b>Flight-Testing Newton's Laws</b>			
<b>2007 Mathematics</b>			
<b>Next Generation Sunshine State Standards</b>			
<b>Florida Mathematics</b>			
<b>Grades 9-12 (Trigonometry)</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Session-10 (1-5)	FL	MA.9-12.MA.912.T.1.8	Solve real-world problems involving applications of trigonometric functions using graphing technology when appropriate.
Session-1 (1-17)	FL	MA.9-12.MA.912.T.2.3	Apply the laws of sines and cosines to solve real-world problems using technology.
Session-1 (1-17)	FL	MA.9-12.MA.912.T.3.4	Solve trigonometric equations and real-world problems involving applications of trigonometric equations using technology when appropriate.